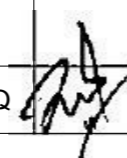
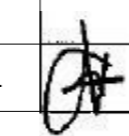
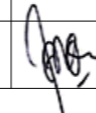
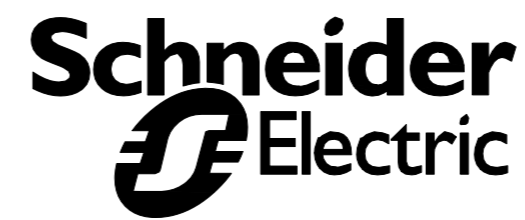
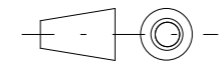


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INDEX	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
A	11/04/2016	First Issued	RZQ 	MDL 	MZ 

SCALE: NTS



OLD SM6-24 MODULAR  
with Internal Arc 12,5kA/1s

SUBJECT :  
 PANEL TYPE (IM)  
 24 kV SWITCHGEAR SM6  
  
 REFERENCE NUMBER :  
 F-SM6R-IM-A1  
  
 DESCRIPTION :  
 IM Manual

COVER SHEET

DRAWING NUMBER	SHEET	TOTAL SHEETS
A5157494852-106	1	10

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12/1/2011

SHEET	DESCRIPTION OF TITLE	INDEX MODIFICATION									
		A	B	C	D	E	F	G	H	I	J
1	COVER SHEET	A									
2	TABLE OF CONTENTS	A									
3	DATA SPECIFICATION	A									
4	FRONT VIEW AND CIVIL WORKS	A									
5	SINGLE LINE DIAGRAM AND LIST OF BUSBAR	A									
6	POWER CIRCUIT	A									
7	AUXILIARY SUPPLIES	A									
8	FRONT VIEW AND COMPONENT LAYOUT	A									
9	BILL OF MATERIAL	A									
10	TERMINAL LIST	A									

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### SCHNEIDER SWITCHBOARD GENERAL DATA

- METAL-ENCLOSED SF6 SWITCHGEAR TYPE OLD SM6
- SF6; CB, SWITCH OR CONTACTOR
- FRONT SIDE CONNECTION FOR HV CABLE
- PAINTING AND SURFACE TREATMENT : SCHNEIDER STANDARD
- PANEL COLOUR : RAL 9003 FOR EXTERNAL SURFACE OF SWTBDR
- INDEX PROTECTION : IP 3X
- 3 PHASE AND EARTH BAR
- INCOMING CABLES : BOTTOM ENTRY
- OUTGOING CABLES : BOTTOM ENTRY
- INTERNAL ARC : 12,5kA-1s
- FIELD DISTRIBUTOR :
  - TOP    ● RESIN    □ SILICON RUBBER
  - BOTTOM □ ALUMINIUM ● SILICON RUBBER

### ELECTRICAL EQUIPT.

RATED VOLTAGE	(Ur)	●	24kV
SERVICE VOLTAGE	(Us)	●	20kV
POWER FREQUENCY WITHSTAND VOLTAGE	(Ud)	●	50kV
BASIC INSULATION LEVEL	(Up)	●	125kV peak
BUSBAR RATING	(Ir)	●	630A
THERMAL WITHSTAND (kA-rms)	(Ik)	●	16kA-1sec
ELECTRO DYNAMIC WITHSTAND (kA-peaks)	(Ip)	●	40kA-peak
FREQUENCY	(Fr)	●	50Hz

### AUXILIARY SUPPLY

V HEATER	●	220VAC, 50Hz
V CONTROL TRIPPING COIL 1	●	-
V CONTROL TRIPPING COIL 2	●	-
V CONTROL UNDER VOLTAGE RELEASE	●	-
V CONTROL CLOSING COIL / ANTIPUMPING	●	-
V CONTROL MOTOR	●	-
V CONTROL PROTECTION	●	-
V CONTROL METERING	●	-
V CONTROL COMMUNICATION	●	-
V CONTROL TVS III	●	-

### CONTROL / AUX. WIRING (STANDARD)

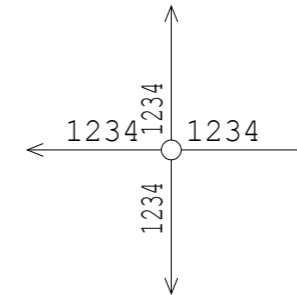
CURRENT CIRCUIT/ (FROM CT) / COLOUR	□ 2.5SQMM	PHASE: L1/RED; L2/YELLOW; L3/BLACK NEUTRAL/GREEN
AC VOLTAGE CIRCUIT / (FROM VT) / COLOUR	□ 1.5SQMM	PHASE: L1/RED; L2/YELLOW; L3/BLACK NEUTRAL/BLUE
DC VOLTAGE CIRCUIT	□ 1.5SQMM; +/-BLACK; -/BLACK	
AC CONTROL CIRCUIT / COLOUR	□ 1.5SQMM; PHASE/BLACK; NEUTRAL/BLACK	
GROUND	□ 2.5SQMM; GREEN-YELLOW	

### DEVICE LETTER CODE

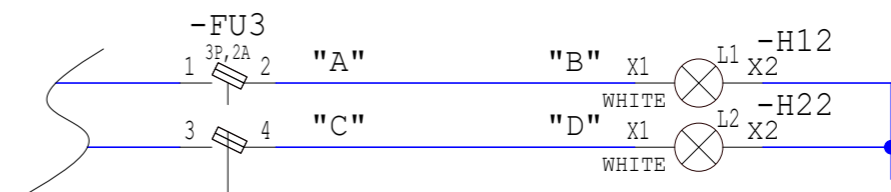
B	THERMOSTAT
C	CAPACITOR
E	HEATING DEVICE
F	PROTECTIVE DEVICE ( PROTECTION RELAY, FUSE ....)
G	GENERATOR
H	SIGNALLING DEVICE ( INDICATOR LIGHT ....)
K	RELAY
M	MOTOR
P	MEASURING DEVICE ( AMMETER, VOLTMETER, ....)
Q	MECHANICAL SWITCHING DEVICE ( CIRCUIT BREAKER, ISOLATOR ....)
R	RESISTOR
S	SWITCH ( CONTROL SWITCH, PUSHBUTTONS ....)
T	TRANSFORMER
U	TRANSDUCER
V	DIODE
X	LINK, TERMINAL

### CABLE MARKER

FITTING STYLE OF WIRE MARK  
Letters are read from the side of termination



### NOTE FOR CABLE MARKER : SAMPLE COMPARTMENT FI-1

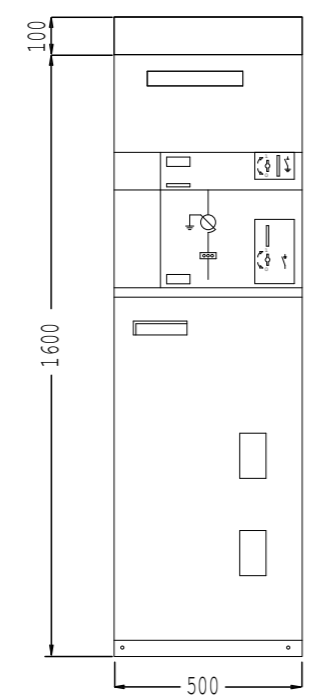


- "A" : -FU3/2
- "B" : -H12/X1
- "C" : -FU3/4
- "D" : -H22/X1

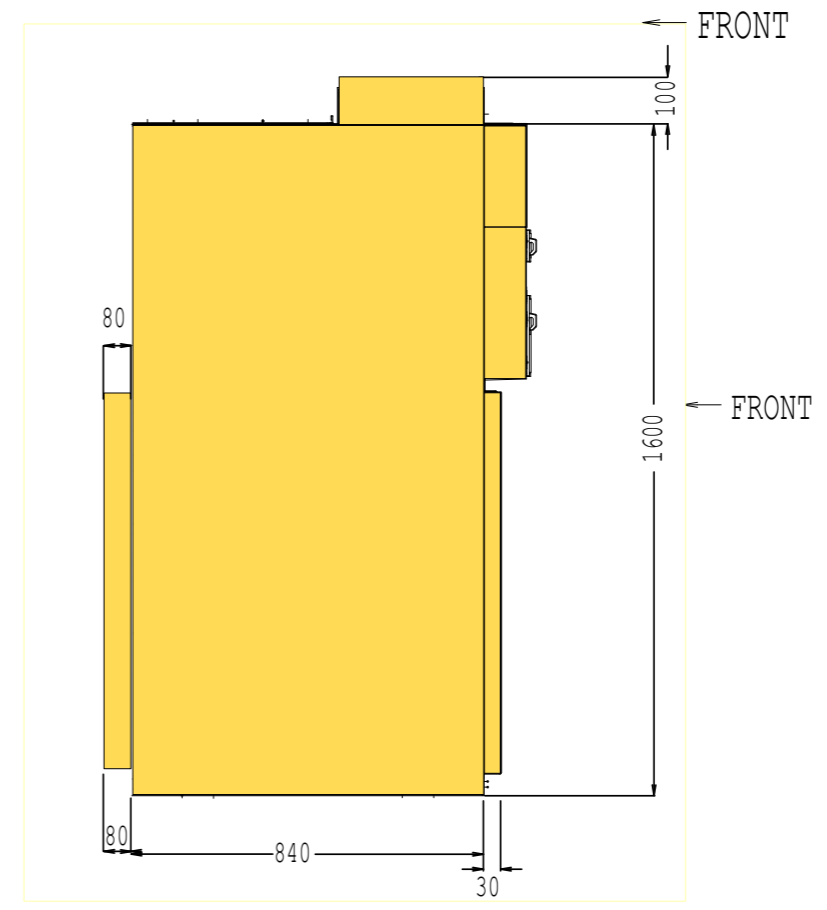
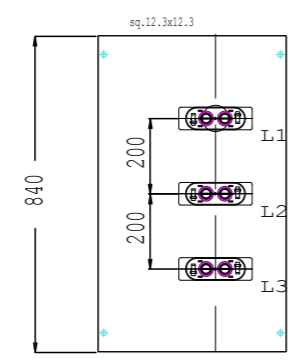
				Subject: PANEL TYPE (IM) 24 kV SWITCHGEAR SM6	<b>Schneider Electric</b>		Title: DATA SPECIFICATION	Order Nr: -	=Fx
A	First Issued	11/04/2016	RZQ	<b>Schneider Electric</b>		Drawing Nr: A5157494852-106			Sheet 3
Index	Description	Date	Name						Origin

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-
IM



CABLES ACCESS AND FIXING HOLES



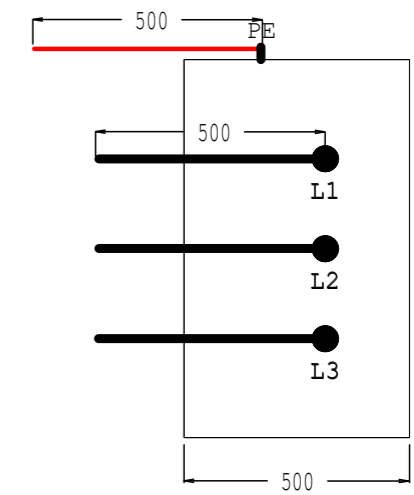
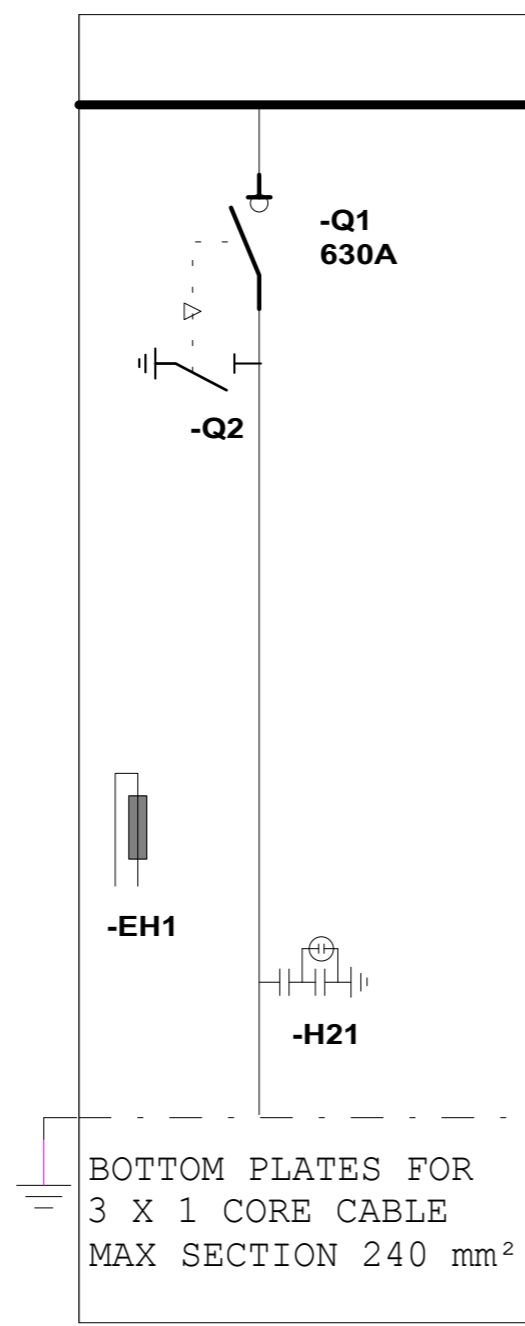
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A	First Issued	11/04/2016	RZQ							Drawing Nr: A5157494852-106		Sheet	4
Index	Description	Date	Name	Origin	Repl. f.	Repl. by					Total Sh.		10

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TYPE OF PANEL

IM

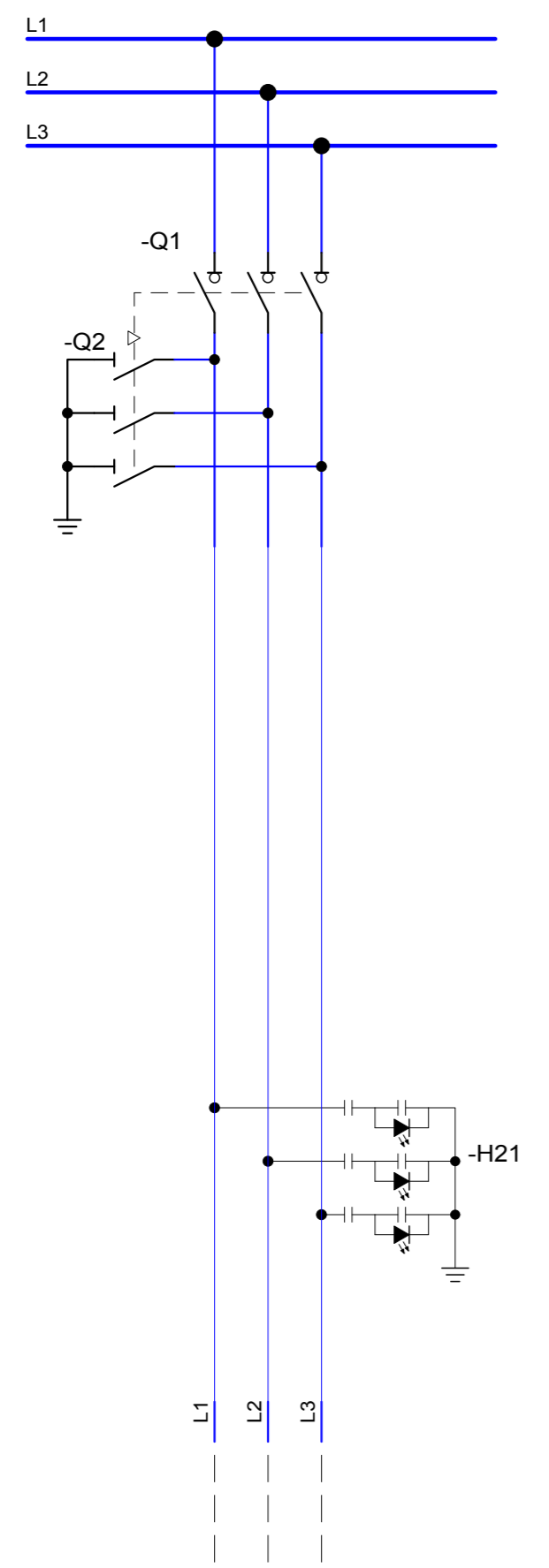
IM




FACTORY NO.	-
(L1-L2-L3) BUSBAR L = 500mm	1 SET
(L1-L2-L3) FIELD DISTRIBUTOR	3 PCS
(PE) EARTHING BAR L = 500mm	1 PC
SIDE PLATE	1 PC
END PLATE	-
OPERATING HANDLE	1 PC

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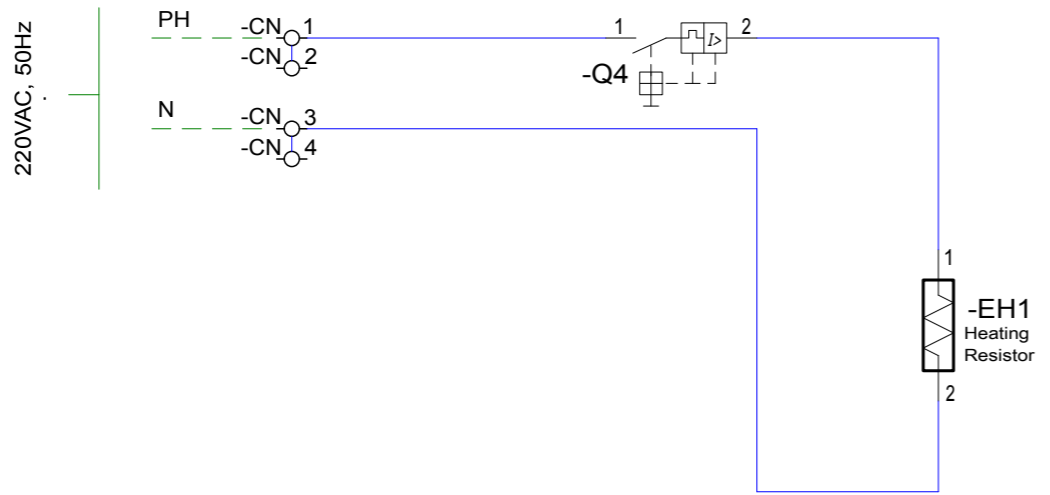
POWER CIRCUIT



		Subject: PANEL TYPE (IM) 24 kV SWITCHGEAR SM6				Title: POWER CIRCUIT		Order Nr: -		=Fx	
A	First Issued	11/04/2016	RZQ			Drawing Nr: A5157494852-106				Sheet 6	
Index	Description	Date	Name	Origin	Repl. f.	Repl. by	Total Sh10				

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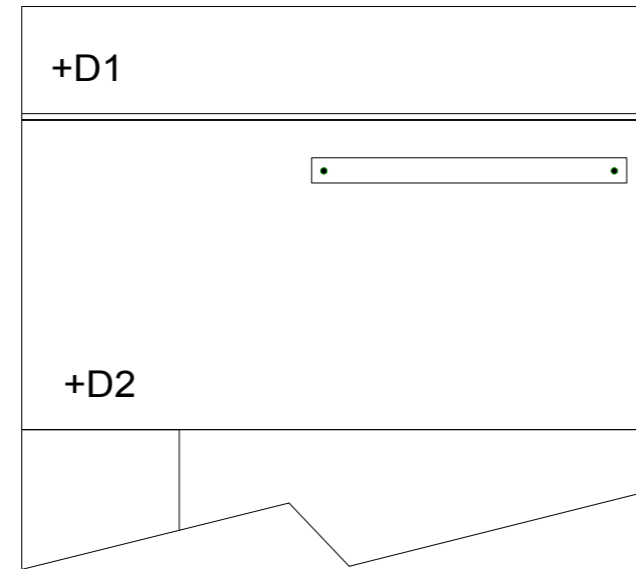
EXTERNAL SUPPLY



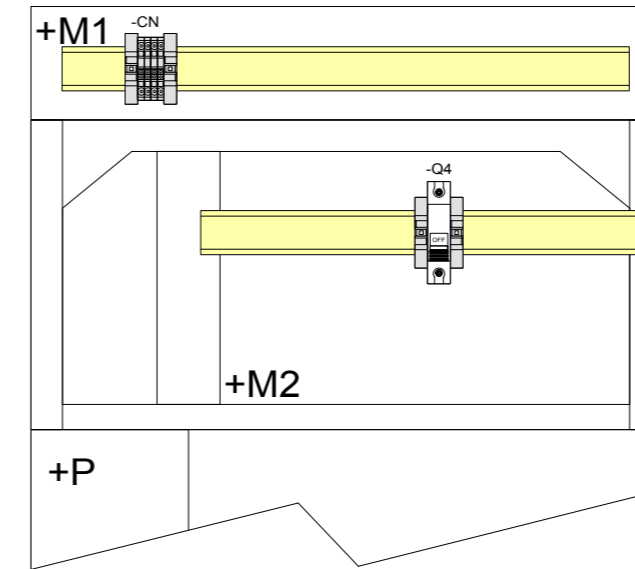
				Subject: PANEL TYPE (IM) 24 kV SWITCHGEAR SM6		Schneider Electric		Title: AUXILIARY SUPPLIES		Order Nr: -		=Fx	
A	First Issued	11/04/2016	RZQ							Drawing Nr: A5157494852-106		Sheet 7	
Index	Description	Date	Name	Origin	Repl. f.	Repl. by					Total Sh10		

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FRONT VIEW



FRONT VIEW  
(Door & Cover removed)



NOTE :  
QTY OF TERMINALS AND JUMPERS  
PLEASE REFER TERMINATION DIAGRAM

				Subject: PANEL TYPE (IM) 24 kV SWITCHGEAR SM6				Title: FRONT VIEW AND COMPONENT LAYOUT		Order Nr: -		=Fx		
										Drawing Nr: A5157494852-106		Sheet 8		Total Sh10
A	First Issued	11/04/2016	RZQ											
Index	Description	Date	Name	Origin	Repl. f.	Repl. by								



# Bill of Material

No.	Qty	Type / Ref. no.	Description	Manufacture	Device designation
1	1	-Earth Switch within LBS-	Earth Switch 3P	Schneider Electric	=Fx+P-Q2
2	1	3736436-220V	Space Heater, 50W, 220/240VAC, 50/60Hz	Local	=Fx+P-EH1
3	1	IC60N / A9F74102	MCB 1P, 2A, 6kA Curve C	Schneider Electric	=Fx+M2-Q4
4	1	CIT	LBS 3P	Schneider Electric	=Fx+P-Q1
5	1	L1, L2, L3, PE	Main Busbar and Earthing Busbar	Schneider Electric	=Fx+P-Main Bar
6	4	ST 2.5, 3031212	Spring Cage Terminal Block for 2.5 sqmm	Phoenix	=Fx+M1-CN(4)
7	1	VPIS / VPI 62408 + 62418	LED Voltage Indication, 18-25kV, 47.2 uA	Schneider Electric	=Fx+P-H21

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E2030 - 13900 / IC- 17977  
 created with A5157494852-106  
 P:\Standard\Standard\_SO\Old SM6 IAC 12.5kVA  
 11/9/2016 5/12/2016 13:55  
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cable type	cable designations	Placement in Schematics	jumpers	terminal number	
		7/E2	● — ●	1	
		7/E2	● — ●	2	
		7/E2	● — ●	3	
		7/E2	● — ●	4	

terminal strip  
-CN

Terminal type  
 terminal ST 2.5 [ 1 - 4 ]  
 terminal  
 terminal